



4 February 2002



Joan Kessner
Bechtel-Hanford, Inc.
3190 Washington Way
MSIN H9-03
Richland, WA 99352

Subject: Contract No. 630
Analytical Data Package

Dear Ms. Kessner:

Enclosed are the hard copy analytical reports for the batch number/fraction indicated (marked X) in the following table:

LvLI Batch #	0201L841
SDG #	H1571 addon
SAF #	B02-008
Date Relogged	1-11-02
# Samples	1
Matrix	Soil
Volatiles	
Semivolatiles	
Pest/PCB	
DRO/GRO	
GC Scan	
Metals	X
Inorganics	

The electronic data deliverable (EDD) will be emailed shortly. If you have any questions, please don't hesitate to contact me at (610) 280-3012.

Sincerely,
Lionville Laboratory Incorporated


Orlette S. Johnson
Project Manager

r:\group\pm\orlette\tnu-hanford\data\bc_itr.doc

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD B02-008 H1571



DATE RECEIVED: 01/24/02

LVL LOT # :0201L841

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
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B13CK9

TCLP	001	S	02LTO170	10/31/01	01/29/02	01/30/02
CADMIUM, TCLP LEACHA	002	W	02L0044	01/30/02	01/31/02	01/31/02
CADMIUM, TCLP LEACHA	002 REP	W	02L0044	01/30/02	01/31/02	01/31/02
CADMIUM, TCLP LEACHA	002 MS	W	02L0044	01/30/02	01/31/02	01/31/02
MERCURY, TCLP LEACHA	002	W	02C0037	01/30/02	01/30/02	01/31/02
MERCURY, TCLP LEACHA	002 REP	W	02C0037	01/30/02	01/30/02	01/31/02
MERCURY, TCLP LEACHA	002 MS	W	02C0037	01/30/02	01/30/02	01/31/02
LEAD, TCLP LEACHATE	002	W	02L0044	01/30/02	01/31/02	01/31/02
LEAD, TCLP LEACHATE	002 REP	W	02L0044	01/30/02	01/31/02	01/31/02
LEAD, TCLP LEACHATE	002 MS	W	02L0044	01/30/02	01/31/02	01/31/02

LAB QC:

CADMIUM LABORATORY	LC1 BS	W	02L0044	N/A	01/31/02	01/31/02
CADMIUM, TCLP LEACHA	MB1	W	02L0044	N/A	01/31/02	01/31/02
CADMIUM, TCLP LEACHA	MB2	W	02L0044	N/A	01/31/02	01/31/02
MERCURY LABORATORY	LC1 BS	W	02C0037	N/A	01/30/02	01/31/02
MERCURY, TOTAL	MB1	W	02C0037	N/A	01/30/02	01/31/02
MERCURY, TCLP LEACHA	MB2	W	02C0037	N/A	01/30/02	01/31/02
LEAD LABORATORY	LC1 BS	W	02L0044	N/A	01/31/02	01/31/02
LEAD, TCLP LEACHATE	MB1	W	02L0044	N/A	01/31/02	01/31/02
LEAD, TCLP LEACHATE	MB2	W	02L0044	N/A	01/31/02	01/31/02



Analytical Report

Client: TNU-HANFORD B02-008
LVL#: 0201L841
SDG/SAF#: H1571/B02-008

W.O.#: 11343-606-001-9999-00
Date Received: 01-24-02

METALS CASE NARRATIVE

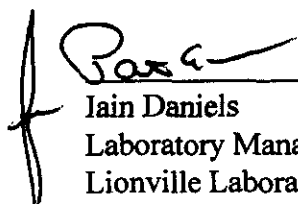
1. This narrative covers the analysis of 1 TCLP leachate sample.
2. The sample was prepared and analyzed in accordance with methods checked on the attached glossary. The sample was reported with a six fold dilution due to sample matrix.

This is a relog of LVL batch# 0112L256-002 per SDR# 02PM004.

3. All analyses were performed within the required holding times.
4. All cooler temperatures have been recorded on the Chain of Custody.
5. All Initial and Continuing Calibration Verifications (ICV/CCVs) were within the 90-110% control limits.
6. All Initial and Continuing Calibration Blanks (ICB/CCBs) were within control limits (less than the PQL).
7. All preparation/method blanks (MB) were within method criteria {less than the Practical Quantitation Limit (3X the IDL), MB value less than 5% of the RCRA limit, or samples greater than 20X MB value}. Refer to the Inorganics Method Blank Data Summary.
8. All ICP Interference Check Standards were within control limits.
9. All laboratory control samples (LCS) were within the 80-120% control limits. Refer to the Inorganics Laboratory Control Standards Report.
10. The duplicate analysis for 1 analyte was outside the 20% Relative Percent Difference (RPD) control limits. Refer to the Inorganics Precision Report.
11. The TCLP extract from sample B13CK9 was selected for the matrix spike (MS) for this analytical batch. All MS recoveries were greater than 50% as per method criteria.

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 12 pages.

12. For the purposes of this report, the data has been reported to the Instrument Detection Limit (IDL). Values between the IDL and the Practical Quantitation Limit (PQL) are acquired in a region of less-certain quantification.
13. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.


Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated
gmb/m01-841

02-01-02
Date

Lionville Laboratory Sample Discrepancy Report (SDR)

SDR #: 02PM004

Initiator: Johnson Batch: 0111L256 Parameter: metals
 Date: 1/24/02 Samples: -002 Matrix: 8017
 Client: TNA Hanford Method: SW846/MCAWW/CLPI Prep Batch: _____
H7571

1. Reason for SDR

a. COC Discrepancy ☐ Tech Profile Error ☒ Client Request ☐ Sampler Error on C-O-C
☐ Transcription Error ☐ Wrong Test Code ☐ Other _____

b. General Discrepancy

☐ Missing Sample/Extract ☐ Container Broken ☐ Wrong Sample Pulled ☐ Label ID's Illegible
☐ Hold Time Exceeded ☐ Insufficient Sample ☐ Preservation Wrong ☐ Received Past Hold
☐ Improper Bottle Type ☐ Not Amenable to Analysis

Note*: Verified by [Log-In] or [Prep Group] (circle)...signature/date: _____

c. Problem (Include all relevant specific results; attach data if necessary)

2. Known or Probable Causes(s)

3. Discussion and Proposed Action

Other Description:

☒ Re-log
☐ Entire Batch
☐ Following Samples: _____
☐ Re-leach
☐ Re-extract
☐ Re-digest
☐ Revise EDD
☐ Change Test Code to _____
☐ Place On/Take Off Hold (circle)

TCLP Cd, pb, Hg
7 day TAT

4. Project Manager Instructions...signature/date:

☐ Concur with Proposed Action
☒ Disagree with Proposed Action; See Instruction
☒ Include in Case Narrative
☐ Client Contacted:
 Date/Person _____
☐ Add
☐ Cancel

Steve Johnson 1/24/02

5. Final Action...signature/date: 1/24/02 Other Explanation:

☒ Verified re-[log][leach][extract][digest][analysis] (circle)
☐ Included in Case Narrative
☐ Hard Copy COC Revised
☐ Electronic COC Revised
☐ EDD Corrections Completed

Relogged to 0201L841

When Final Action has been recorded, forward original to QA Specialist for distribution and filing.

Route Distribution of Completed SDR

☒ X Initiator
☒ X Lab General Manager: M. Taylor
☒ X Project Mgr. Stone/Johnson/Haslett
☒ X Technical Mgr. Wesson/Daniels
☒ X QA (file): Alberts
☐ Data Management: Feldman
☐ Sample Prep: Beegle/Kiger

Route Distribution of Completed SDR

☒ 2 Metals: Beegle
☐ Inorganic: Perrone
☐ GC/LC: Kiger
☐ MS: Rychlak/Layman
☒ 1 Log-in: Melnic
☐ Admin: Soos
☐ Other: _____

METALS METHOD GLOSSARY

The following methods are used as reference for the digestion and analysis of samples contained within this

Lot#: 02012841 ✓

Leaching Procedure: 1310 ✓ 1311 1312 Other: _____

CLP Metals Digestion and Analysis Methods: ILM03.0 ILM04.0

Metals Digestion Methods: 3005A ✓ 3010A 3015 3020A 3050B 3051 200.7 SS17
 Other: _____

Metals Analysis Methods

	SW846	EPA	STD MTD	EPA OSWR	USATHAMA
Aluminum	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Antimony	<u> </u> 6010B <u> </u> 7041 ^s	<u> </u> 200.7 <u> </u> 204.2			<u> </u> 99
Arsenic	<u> </u> 6010B <u> </u> 7060A ^s	<u> </u> 200.7 <u> </u> 206.2	<u> </u> 3113B		<u> </u> 99
Barium	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Beryllium	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Bismuth	<u> </u> 6010B ¹	<u> </u> 200.7 ¹		<u> </u> 1620	<u> </u> 99
Boron	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Cadmium	✓ <u> </u> 6010B <u> </u> 7131A ^s	<u> </u> 200.7 <u> </u> 213.2			<u> </u> 99
Calcium	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Chromium	<u> </u> 6010B <u> </u> 7191 ^s	<u> </u> 200.7 <u> </u> 218.2			<u> </u> SS17
Cobalt	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Copper	<u> </u> 6010B <u> </u> 7211 ^s	<u> </u> 200.7 <u> </u> 220.2			<u> </u> 99
Iron	✓ <u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Lead	✓ <u> </u> 6010B <u> </u> 7421 ^s	<u> </u> 200.7 <u> </u> 239.2	<u> </u> 3113B		<u> </u> 99
Lithium	<u> </u> 6010B <u> </u> 7430 ^s	<u> </u> 200.7		<u> </u> 1620	<u> </u> 99
Magnesium	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Manganese	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Mercury	✓ <u> </u> 7470A ^s <u> </u> 7471A ^s	<u> </u> 245.1 ^s <u> </u> 245.5 ^s			<u> </u> 99
Molybdenum	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Nickel	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Potassium	<u> </u> 6010B <u> </u> 7610 ^s	<u> </u> 200.7 <u> </u> 258.1 ^s			<u> </u> 99
Rare Earths	<u> </u> 6010B ¹	<u> </u> 200.7 ¹		<u> </u> 1620	<u> </u> 99
Selenium	<u> </u> 6010B <u> </u> 7740 ^s	<u> </u> 200.7 <u> </u> 270.2	<u> </u> 3113B		<u> </u> 99
Silicon	<u> </u> 6010B ¹	<u> </u> 200.7		<u> </u> 1620	<u> </u> 99
Silica	<u> </u> 6010B	<u> </u> 200.7		<u> </u> 1620	<u> </u> 99
Silver	<u> </u> 6010B <u> </u> 7761 ^s	<u> </u> 200.7 <u> </u> 272.2			<u> </u> 99
Sodium	<u> </u> 6010B <u> </u> 7770 ^s	<u> </u> 200.7 <u> </u> 273.1 ^s			<u> </u> 99
Strontium	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Thallium	<u> </u> 6010B <u> </u> 7841 ^s	<u> </u> 200.7 <u> </u> 279.2 <u> </u> 200.9			<u> </u> 99
Tin	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Titanium	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Uranium	<u> </u> 6010B ¹	<u> </u> 200.7 ¹		<u> </u> 1620	<u> </u> 99
Vanadium	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Zinc	<u> </u> 6010B	<u> </u> 200.7			<u> </u> 99
Zirconium	<u> </u> 6010B ¹	<u> </u> 200.7 ¹		<u> </u> 1620	<u> </u> 99

Other: _____

Method: _____

METHOD REFERENCES AND DATA QUALIFIERS

DATA QUALIFIERS

U = Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.

* = Indicates that the original sample result is greater than 4x the spike amount added.

ABBREVIATIONS

MB = Method or Preparation Blank.

MS = Matrix Spike.

MSD = Matrix Spike Duplicate.

REP = Sample Replicate

LCS = Laboratory Control Sample.

NC = Not calculated.

ANALYTICAL METAL METHODS

1. Not included in the method element list.
2. Modified Hg: Hg1 and Hg2 require less total volume of digestate due to the autosampler analysis. Sample volumes and reagents for mercury determinations in water and soil have been proportionately scaled down to adapt to this semi-automated technique. The sample volume used for water analysis is 33 mL. For soils, 0.1 grams of sample is taken to a final volume of 50 mL (including all reagents).
3. Modified Hg: Hg1 and Hg2 require less total volume of digestate due to the autosampler analysis. Sample volumes and reagents for mercury determinations in water and soil have been proportionately scaled down to adapt to this semi-automated technique. The sample volume used for water analysis is 33 mL. For soils, three 0.1 gram of sample is taken to a final volume of 50 mL (including all reagents).
4. Flame AA.
5. Graphite Furnace AA.

RFW 21-21L-033/N-10/96

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 02/01/02

CLIENT: TNUHANFORD B02-008 H1571

LVL LOT #: 0201L841

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-002	B13CK9	Cadmium, TCLP Leachate	449	UG/L	1.8	6.0
		Mercury, TCLP Leachate	0.10 u	UG/L	0.10	1.0
		Lead, TCLP Leachate	22.9	UG/L	13.2	6.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 02/01/02

CLIENT: TNUHANFORD B02-008 H1571
WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0201L841

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-----	-----	-----	-----	-----	-----	-----
BLANK1	02L0044-MB1	Cadmium, TCLP Leachate	0.30 u	UG/L	0.30	1.0
		Lead, TCLP Leachate	2.2 u	UG/L	2.2	1.0
BLANK2	02L0044-MB2	Cadmium, TCLP Leachate	1.8 u	UG/L	1.8	6.0
		Lead, TCLP Leachate	13.2 u	UG/L	13.2	6.0
BLANK1	02C0037-MB1	Mercury, Total	0.10 u	UG/L	0.10	1.0
BLANK2	02C0037-MB2	Mercury, TCLP Leachate	0.10 u	UG/L	0.10	1.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 02/01/02

CLIENT: TNUHANFORD B02-008 H1571
WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0201L841

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR (SPK)
-002	B13CK9	Cadmium, TCLP Leachate	1460	449	1000	101.1	6.0
		Mercury, TCLP Leachate	180	0.10u	200	89.8	50.0
		Lead, TCLP Leachate	5060	22.9	5000	100.7	6.0

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 02/01/02

CLIENT: TNUHANFORD B02-008 H1571

LVL LOT #: 0201L841

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR (REP)
-----	-----	-----	-----	-----	-----	-----
-002REP	B13CK9	Cadmium, TCLP Leachate	449	459	2.2	6.0
		Mercury, TCLP Leachate	0.10u	0.10u	NC	1.0
		Lead, TCLP Leachate	22.9	14.8	43.0	6.0

Lionville Laboratory, Inc.

INORGANICS LABORATORY CONTROL STANDARDS REPORT 02/01/02

CLIENT: TNUHANFORD B02-008 H1571
WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0201L841

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	SPIKED AMOUNT	UNITS	%RECOV
-----	-----	-----	-----	-----	-----	-----
LCS1	02L0044-LC1	Cadmium, LCS	242	250	UG/L	96.8
		Lead, LCS	2430	2500	UG/L	97.3
LCS1	02C0037-LC1	Mercury, LCS	5.3	5.0	UG/L	105.8

0201 L 841

Custody Transfer Record/Lab Work Request Page 1 of 1

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS



Client <u>TNU - Hanford B02-008</u>				Refrigerator # <u>3</u>		
Est. Final Proj. Sampling Date _____				#Type Container		
Project # <u>11343-606-001-9999-00</u>				Liquid _____		
Project Contact/Phone # _____				Solid _____		
Lionville Laboratory Project Manager <u>OS</u>				Volume		
QC <u>SPEC</u> Del <u>STD</u> TAT <u>7 day</u>				Liquid _____		
				Solid _____		
Date Rec'd <u>1-24-02</u> Date Due <u>1-31-02</u>				Preservatives _____		
				ANALYSES REQUESTED →		
				ORGANIC		
				VOA BNA Psa/PCB Herb		
				INORG		
				Metal CN		
↓ Lionville Laboratory Use Only ↓						
MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum DL - Drum L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)	Matrix	Date Collected	Time Collected
			MS MSD			
	001	B13CK9	✓ ✓	S	10-31-01	0730
	002	B13CK9 tel. of 001		L	*	

Special Instructions:

SAF # B02-008

DATE/REVISIONS:

* 1. See label on

Relog of 0111 L 256-002
for TCLP Cl, Pb, Hg

2. _____
 3. _____
 4. _____
 5. _____
 6. _____

Lionville Laboratory Use Only

Samples were:

1) Shipped _____ or
 Hand Delivered _____
 Airbill # _____

2) Ambient or Chilled

3) Received in Good Condition

4) Samples Properly Preserved

Y or N

5) Received Within Holding Times

Y or N

6) Received Within Holding Times

Y or N

7) Received Within Holding Times

Y or N

Tamper Resistant Seal was:

1) Present on Outer Package Y or N

2) Unbroken on Outer Package Y or N

3) Present on Sample Y or N

4) Unbroken on Sample Y or N

5) Unbroken on Sample Y or N

6) Unbroken on Sample Y or N

7) Unbroken on Sample Y or N

8) Unbroken on Sample Y or N

9) Unbroken on Sample Y or N

10) Unbroken on Sample Y or N

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150) Unbroken on Sample Y or N

151) Unbroken on Sample Y or N

152) Unbroken on Sample Y or N

153) Unbroken on Sample Y or N

154) Unbroken on Sample Y or N

155) Unbroken on Sample Y or N

156) Unbroken on Sample Y or N

157) Unbroken on Sample Y or N

158) Unbroken on Sample Y or N

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ORIGINAL
Daynes

11/15/11
SDR # B02-049
Revision #: 0
Date Initiated: 01/09/02

SAMPLE DISPOSITION RECORD

SAF: B02-008

OU: 200-CS-1

Project ID: 200-CS-1

Task ID: 1

Sampling Event: 200 Area Source Characterization 200-CS-1 Operable Unit

Laboratory: TMA/RECRA

Task Manager: C. S. Cearlock

Sampling Information:

Number of Samples: 1

ID Numbers: B13CK9

Matrix: Soil

Collection Date: 10/31/01

Issue Background:

Class: ☐ Project Data Use ☒ General Laboratory ☐ Validation Direction ☐ Sample Management
Direction Direction

Type: Addition of Analyses

Description: Addition of Toxic Characteristic Leach Procedure For Cadmium, Lead, and Mercury

Disposition:

Description: The Groundwater/Vadose Zone Integration project requested that the listed sample be analyzed for cadmium, lead, and mercury using the Toxic Characteristic Leach Procedure (TCLP). The request was made after the laboratory had received the samples.

Justification: TCLP data for cadmium, lead, and mercury are needed by the project to satisfy waste designation requirements.

Approval Signatures:

S. J. Trent

Project Coordinator (Print/Sign Name)

1/11/02

Date

C. S. Cearlock

Task Manager (Print/Sign Name)

1/11/02

Date